Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Previously Presented) An MPEG video encoder, said encoder comprising:
 - a) means for analyzing statistics from a video stream;
 - b) means for analyzing statistics, for determining if a scene change has occurred; and
- c) means for creating a modified video stream, wherein a frame with low complexity is selected as an I frame in the modified video stream if the scene change is a fade.
- 2. (Original) The encoder of claim 1 wherein said means for analyzing statistics further comprises means for calculating the global complexity of a current frame within said video stream.
- 3. (Previously Presented) The encoder of claim 2, wherein the means for creating a modified video stream codes said current frame as an I frame and codes the frame previous to said current frame as a P frame in said modified video stream, if a scene change has occurred and if said scene change is a scene cut.
- 4. (Original) The encoder of claim 2, wherein the means to create a modified video stream codes said current frame as a B frame in said modified video stream if a scene change has occurred and said scene change is a dissolve.

- 5. (Original) The encoder of claim 2, wherein the means to create a modified video stream codes a frame with the lowest complexity in a fade as a I frame in said modified video stream if a scene change has occurred and said scene change is a fade.
- 6. (Previously Presented) A method for creating a modified video stream, the method comprising:

analyzing a video stream comprising a plurality of I, B, and P frames;

determining when a scene change has occurred;

creating a modified video stream, wherein a frame with low complexity is selected as an I frame in the modified video stream if the scene change is a fade.

- 7. (Original) The method of claim 6 wherein if a scene cut has occurred, at a current frame, coding said current frame as an I frame and coding the frame previous to said current frame as P frame in said modified video stream.
- 8. (Original) The method of claim 6 wherein if a dissolve has occurred, at a current frame, coding said current frame as a B frame in said modified video stream.
- 9. (Previously Presented) The method of claim 6 wherein if a fade has occurred, selecting a frame with low complexity in the fade as an I frame in said modified video stream.
- 10. (Previously Presented) A computer readable medium including instructions for creating a modified video stream, said instructions comprising:

computer code for analyzing the frames of an input video stream to determine when a scene change has occurred:

computer code for creating a modified video stream, wherein a frame with low complexity is selected as an I frame in the modified video stream if the scene change is a fade.

- 11. (Original) The medium of claim 10 wherein if a scene cut has occurred at a current frame, coding said current frame as an I frame and the frame previous to said current frame as a P frame, in said modified video stream.
- 12. (Original) The medium of claim 11 wherein if a dissolve has occurred at a current frame, coding said current frame as a B frame in said modified video stream.
- 13. (Original) The medium of claim 12 wherein if a fade has occurred, selecting a frame with the lowest-complexity in the fade as an I frame in said modified video stream.
- 14. (Original) A method for improving encoder performance, said method determining if a fade has occurred in a video stream, if a fade has occurred, modifying said video stream by selecting a frame with the lowest complexity in the fade as an I frame in said video stream.
- 15. (Previously Presented) A system for improving encoder performance, said system having detection means to determine if a fade has occurred in a video stream, if a fade has occurred, utilizing means to select a frame with low complexity in the fade as an I frame in said video stream.

16. (Previously Presented) An MPEG video encoder, said encoder comprising:

- a) a statistical analysis module for analyzing statistics from a video stream;
- b) a scene change analysis module connected to said statistical analysis module for determining if a scene change has occurred; and
- c) a modification module to create a modified video stream, wherein a frame with low complexity is selected as an I frame in the modified video stream if the scene change is a fade.
- 17. (Original) The encoder of claim 16 wherein said statistical analysis module calculates the global complexity of a current frame within said video stream.
- 18. (Original) The encoder of claim 17, wherein said modification module codes said current frame as an I frame and codes the frame previous to said current frame as P frame in said modified video stream, if a scene change has occurred and if the scene change is a cut.
- 19. (Original) The encoder of claim 17, wherein said modification module codes said current frame as a B frame in said modified video stream, if a scene change has occurred and if the scene change is a dissolve.
- 20. (Original) The encoder of claim 17, wherein said modification module codes a frame with the lowest complexity in a fade as an I frame in said modified video stream, if a scene change has occurred and if the scene change is a fade.